

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 C09K11/06 H01L51/30**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
**IPC 7 C09K H01L**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	S. LAMANSKY ET.AL.: "Synthesis and characterization of phosphorescent cyclometalated Iridium complexes" INORG. CHEM., vol. 40, 2001, pages 1704-1711, XP002315389 the whole document ----- A KR 2002 076 545 A (LG ELECTRONICS INC) 11 October 2002 (2002-10-11) the whole document ----- -/-	1-10
		1-10

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search	Date of mailing of the International search report
27 January 2005	14/02/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer  Doslík, N

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LAMANSKY SERGEY ET AL: "Cyclometalated Ir complexes in polymer organic light-emitting devices" JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 92, no. 3, 1 August 2002 (2002-08-01), pages 1570-1575, XP012057001 ISSN: 0021-8979 the whole document	1-10
A	D. N. NICOLAIDES ET.AL.: "Diels-Alder reactions of ethyl '10-(methoxyimino)phenanthren-9-ylidene!acetate with dienophiles. Synthesis of dibenzo'f,h!quinoline and dibenzo'a,c!acridine derivatives" J. ORG. CHEM., vol. 59, 1994, pages 1083-1086, XP002315390 the whole document	1-10
A	A. P. WILDE ET.AL.: "Resolution and analysis of the components in dual emission of mixed-chelate/ ortho-metalate complexes of Iridium(III)" J. PHYS. CHEM., vol. 95, 1991, pages 629-634, XP002315391 the whole document	1-10
A	K. ICHIMURA ET.AL.: "Excited-state absorption spectroscopy of ortho-metatalated Ir(III) complexes" J. PHYS. CHEM., vol. 91, 1987, pages 6104-6106, XP002315392 the whole document	1-10

## Information on patent family members

ational Application No  
/IB2004/052328

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2002076545	A 11-10-2002	NONE	